

=> fil reg

FILE 'REGISTRY' ENTERED AT 11:44:48 ON 01 JUN 2004
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 31 MAY 2004 HIGHEST RN 688001-12-9
DICTIONARY FILE UPDATES: 31 MAY 2004 HIGHEST RN 688001-12-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

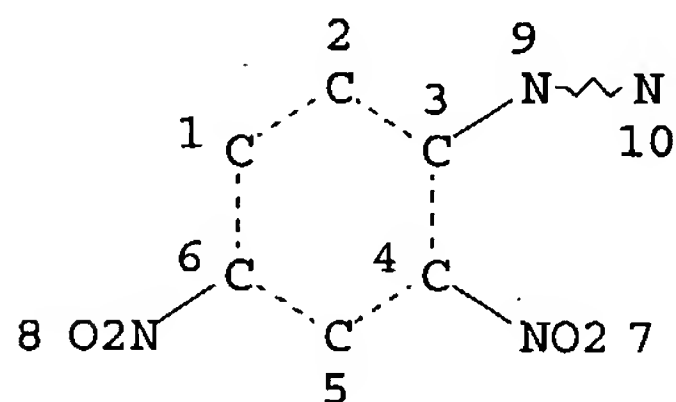
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sta que

L3 STR



NODE ATTRIBUTES:

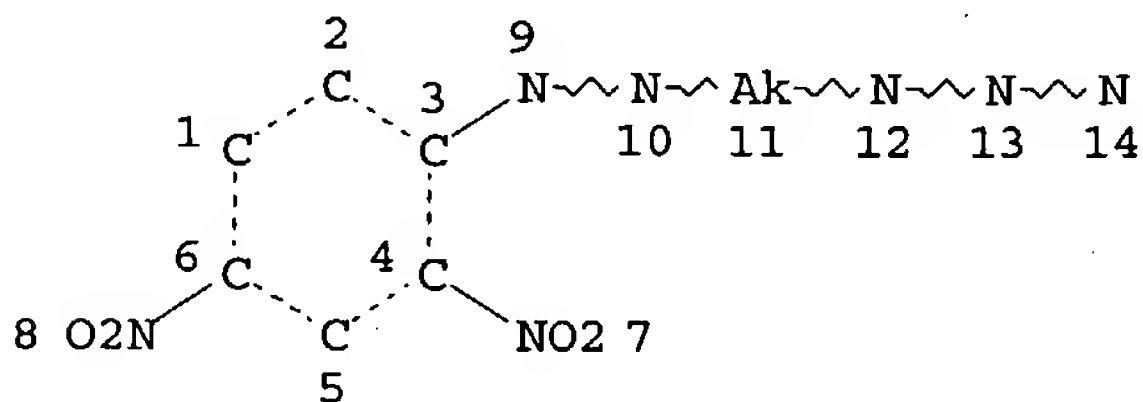
CONNECT IS M1 RC AT 10
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 1
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L5 SCR 1839
L7 4596 SEA FILE=REGISTRY CSS FUL L3 NOT L5
L8 STR



NODE ATTRIBUTES:

CONNECT IS M1 RC AT 11
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 1
NUMBER OF NODES IS 14

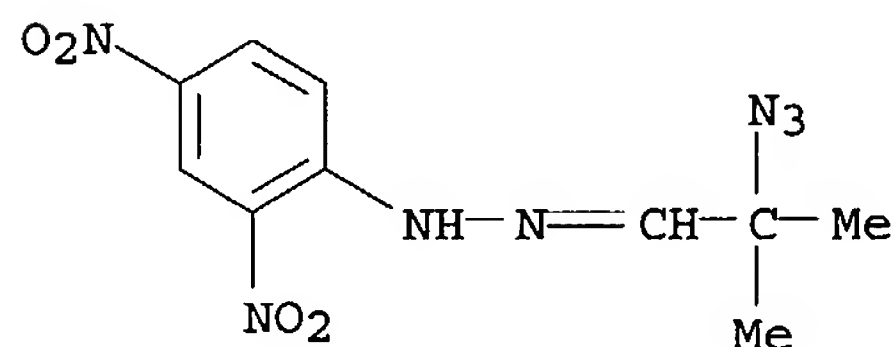
STEREO ATTRIBUTES: NONE
L10 10 SEA FILE=REGISTRY SUB=L7 CSS FUL L8

100.0% PROCESSED 10 ITERATIONS
SEARCH TIME: 00.00.01

10 ANSWERS

=> d scan

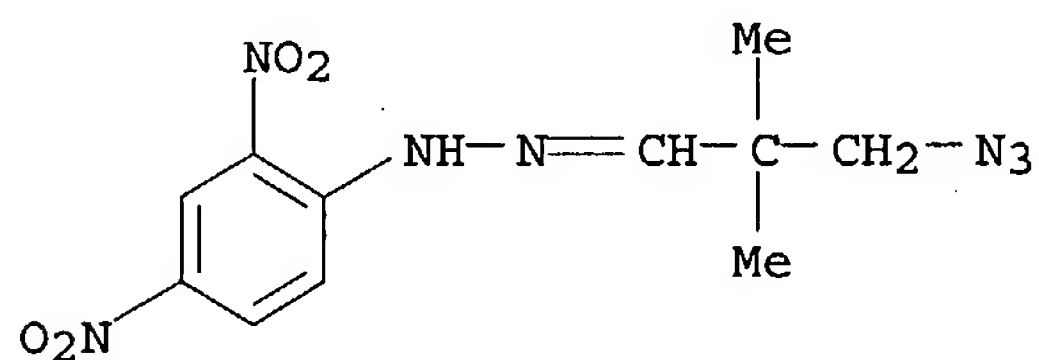
L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Propanal, 2-azido-2-methyl-, (2,4-dinitrophenyl)hydrazone (9CI)
MF C10 H11 N7 O4



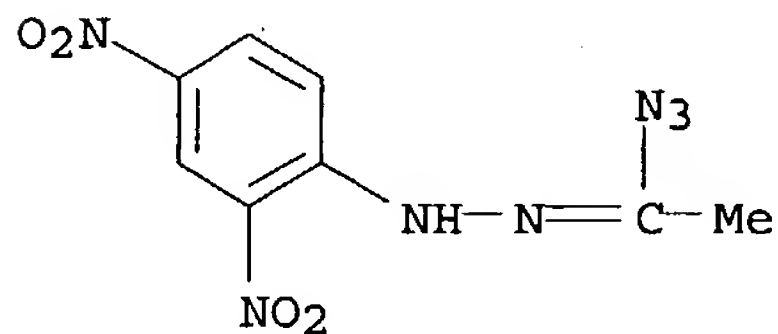
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):9

L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Propanal, 3-azido-2,2-dimethyl-, (2,4-dinitrophenyl)hydrazone (9CI)
MF C11 H13 N7 O4

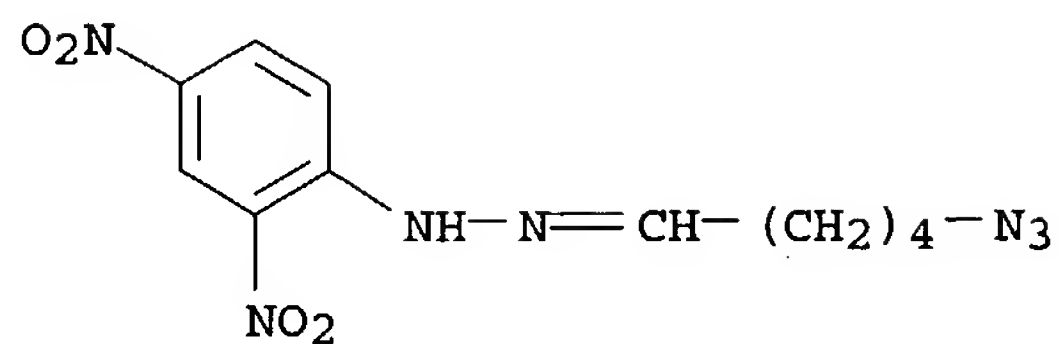


L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanehydrazonoyl azide, N-(2,4-dinitrophenyl)- (9CI)
MF C8 H7 N7 O4



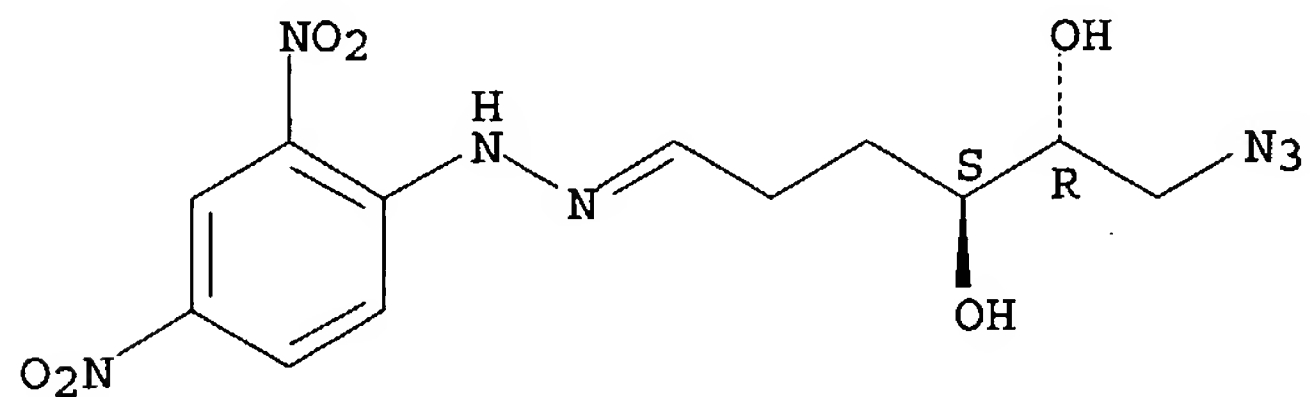
L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Pentanal, 5-azido-, (2,4-dinitrophenyl)hydrazone (9CI)

MF C11 H13 N7 O4

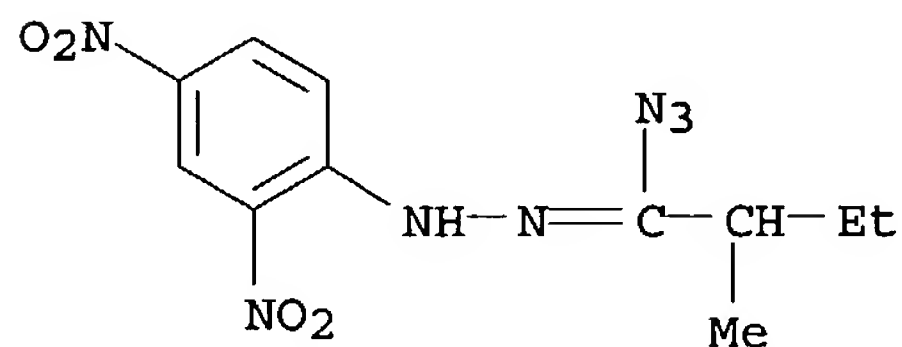


L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN D-erythro-Hexose, 6-azido-2,3,6-trideoxy-, (2,4-dinitrophenyl)hydrazone (9CI)
 MF C12 H15 N7 O6

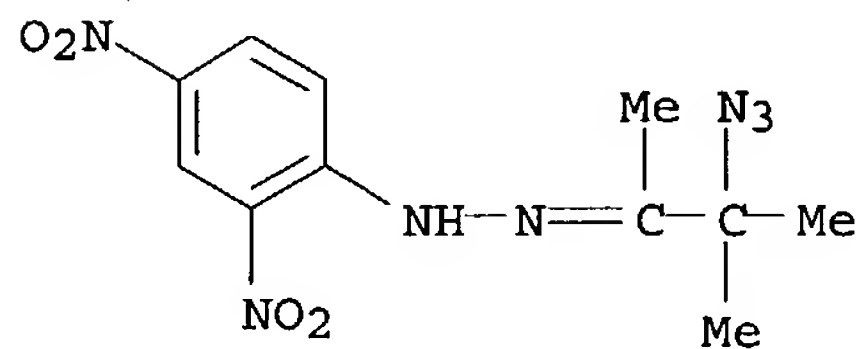
Absolute stereochemistry.
 Double bond geometry unknown.



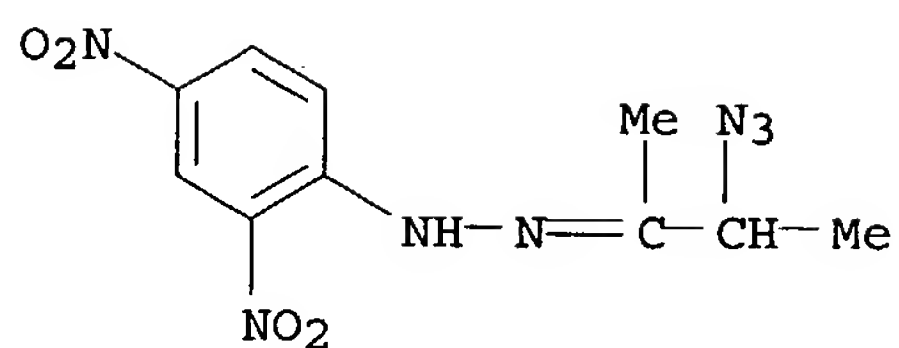
L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Butyryl azide, 2-methyl-, (2,4-dinitrophenyl)hydrazone (8CI)
 MF C11 H13 N7 O4



L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN 2-Butanone, 3-azido-3-methyl-, (2,4-dinitrophenyl)hydrazone (7CI, 8CI)
 MF C11 H13 N7 O4

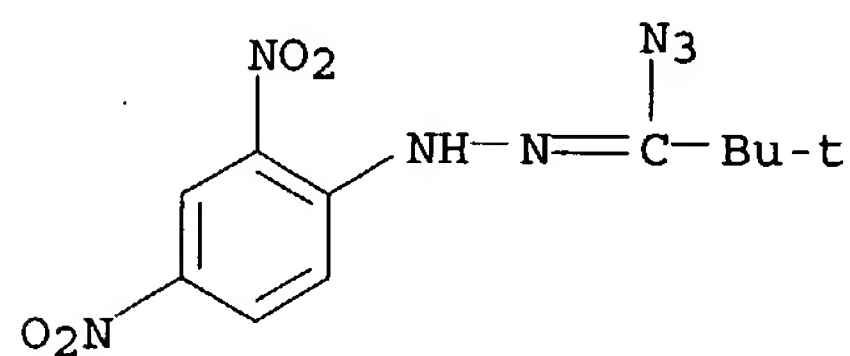


L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN 2-Butanone, 3-azido-, (2,4-dinitrophenyl)hydrazone (9CI)
 MF C10 H11 N7 O4

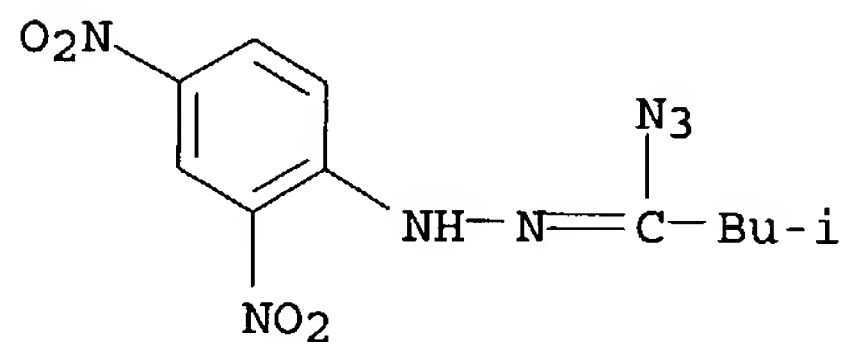


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Propanehydrazonoyl azide, N-(2,4-dinitrophenyl)-2,2-dimethyl- (9CI)
MF C11 H13 N7 O4



L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Butyryl azide, 1-methyl-, (2,4-dinitrophenyl)hydrazone (8CI)
MF C11 H13 N7 O4



ALL ANSWERS HAVE BEEN SCANNED

=>

=> fil reg

FILE 'REGISTRY' ENTERED AT 11:14:14 ON 01 JUN 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 31 MAY 2004 HIGHEST RN 688001-12-9

DICTIONARY FILE UPDATES: 31 MAY 2004 HIGHEST RN 688001-12-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

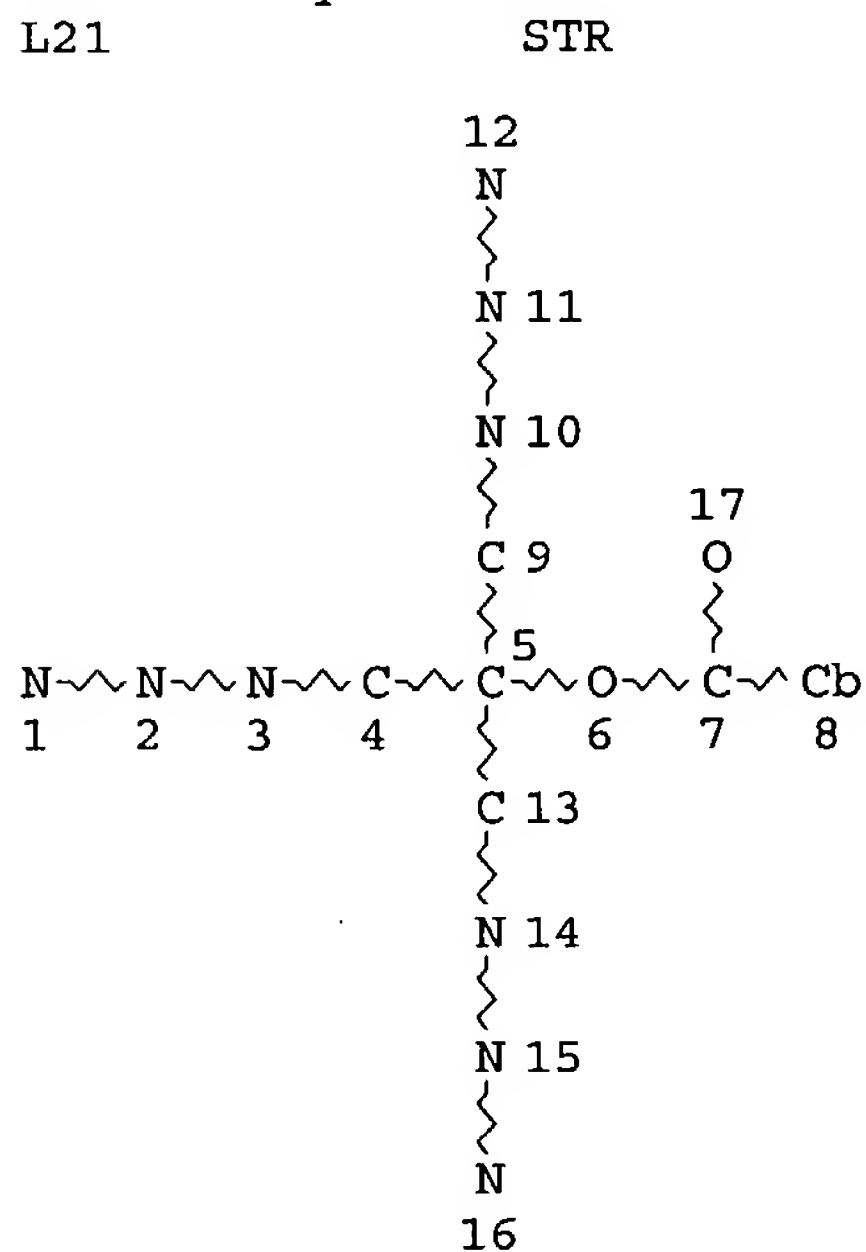
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sta que l24



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS PCY AT 8

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE

L24 3 SEA FILE=REGISTRY SSS FUL L21

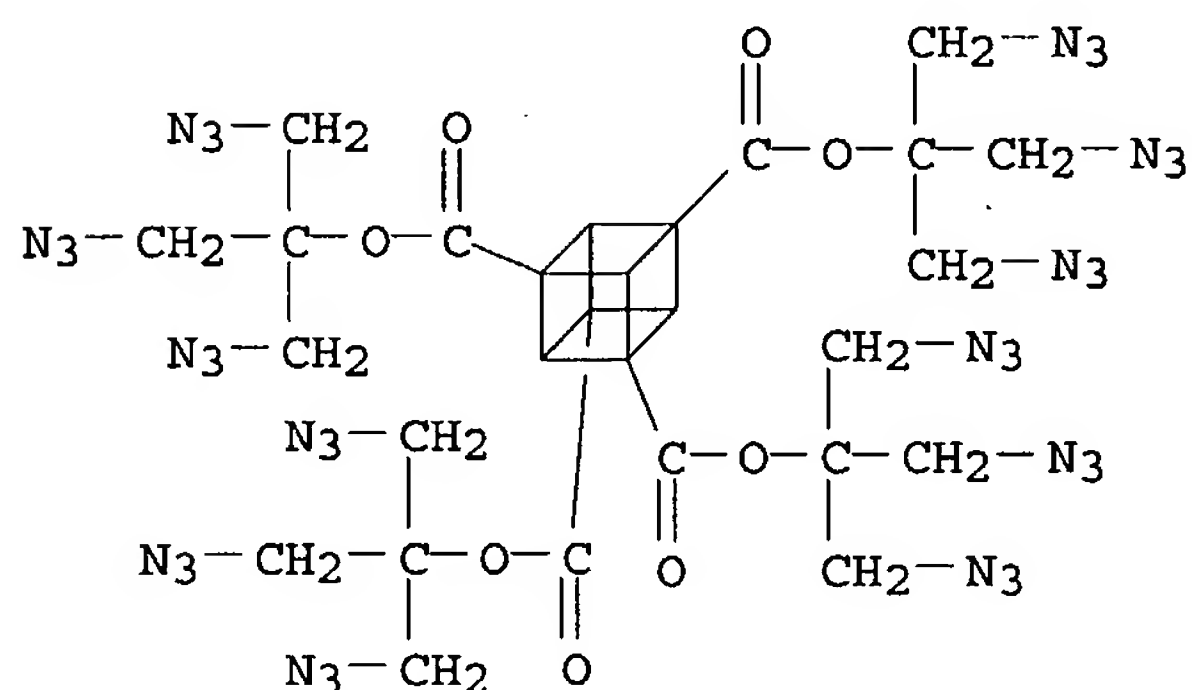
100.0% PROCESSED 6 ITERATIONS

SEARCH TIME: 00.00.01

3 ANSWERS

=> d ide can tot 125

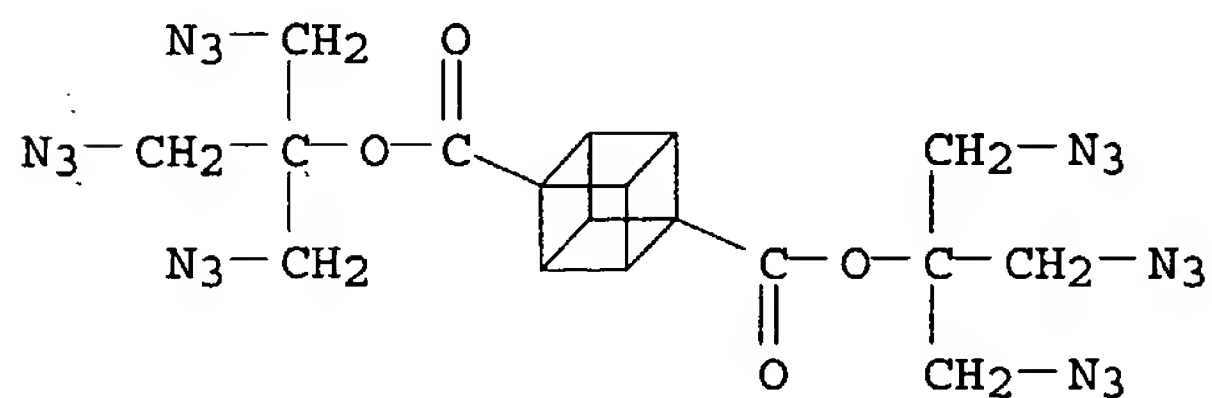
L25 ANSWER 1 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 682353-77-1 REGISTRY
 CN INDEX NAME NOT YET ASSIGNED
 FS 3D CONCORD
 MF C28 H28 N36 O8
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAPLUS document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation)



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L25 ANSWER 2 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 682353-76-0 REGISTRY
 CN INDEX NAME NOT YET ASSIGNED
 FS 3D CONCORD
 MF C18 H18 N18 O4
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAPLUS document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation)

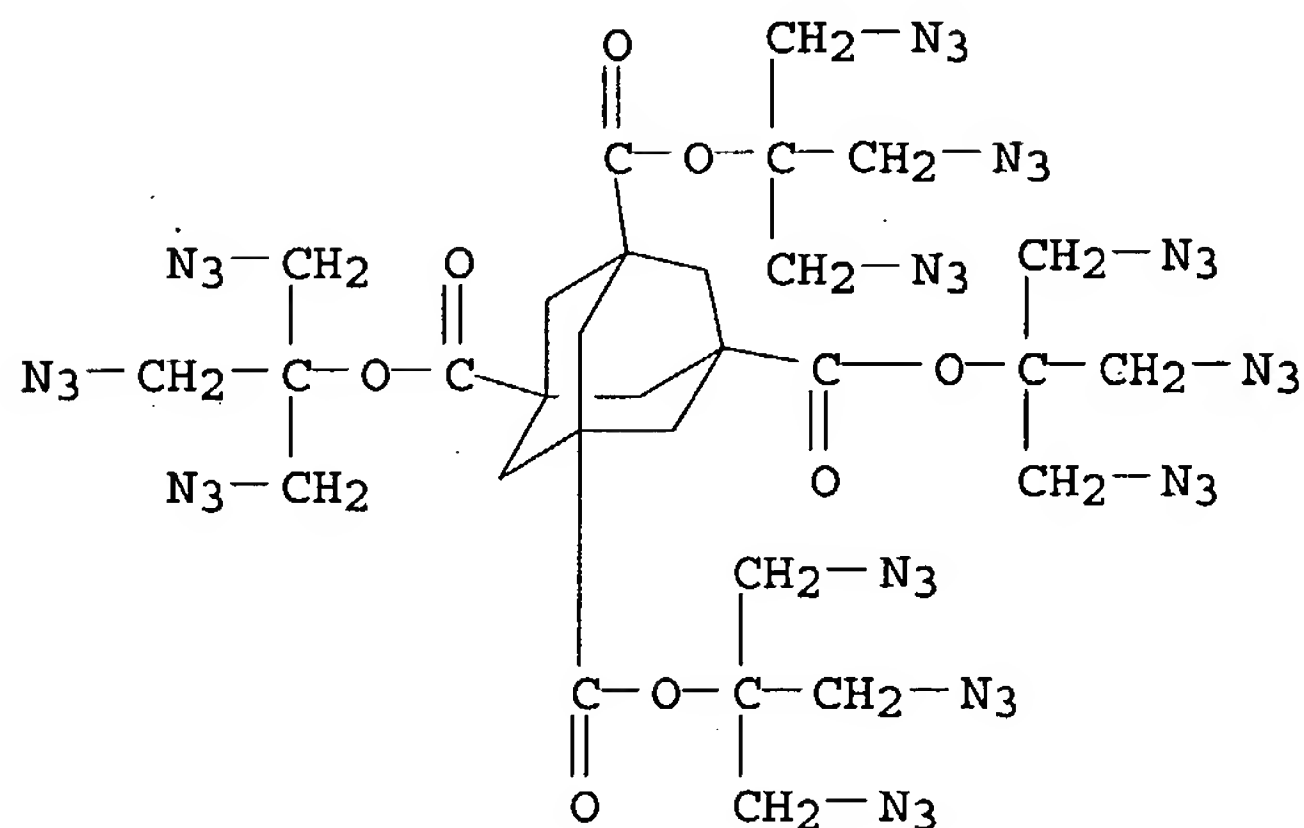


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L25 ANSWER 3 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 682353-75-9 REGISTRY
 CN INDEX NAME NOT YET ASSIGNED

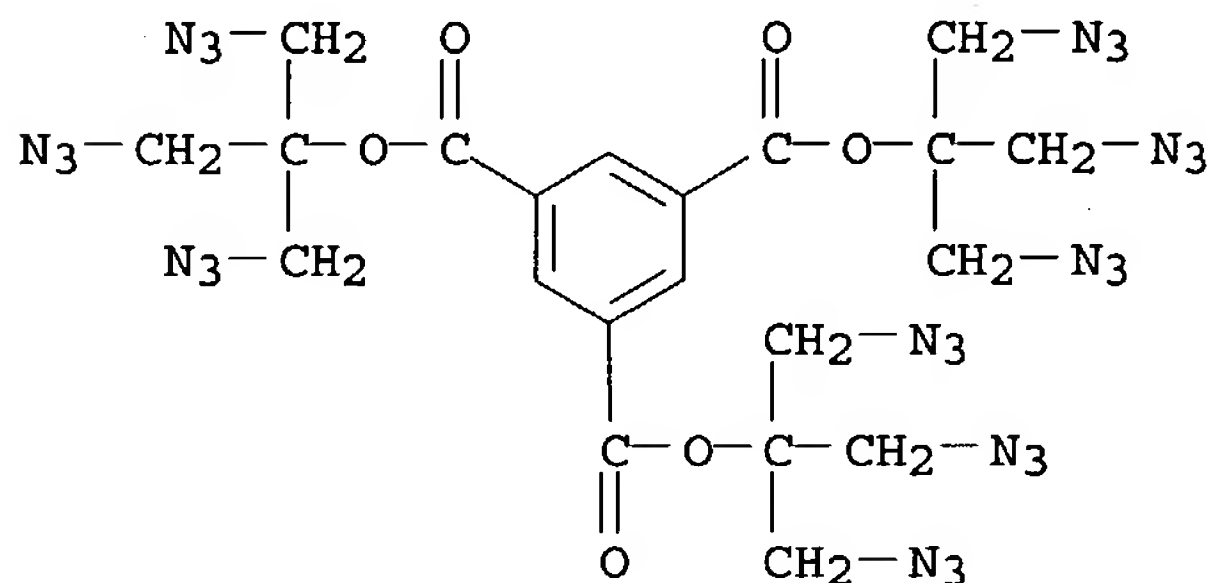
FS 3D CONCORD
 MF C30 H36 N36 O8
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation)



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L25 ANSWER 4 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 682353-74-8 REGISTRY
 CN INDEX NAME NOT YET ASSIGNED
 FS 3D CONCORD
 MF C21 H21 N27 O6
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation)

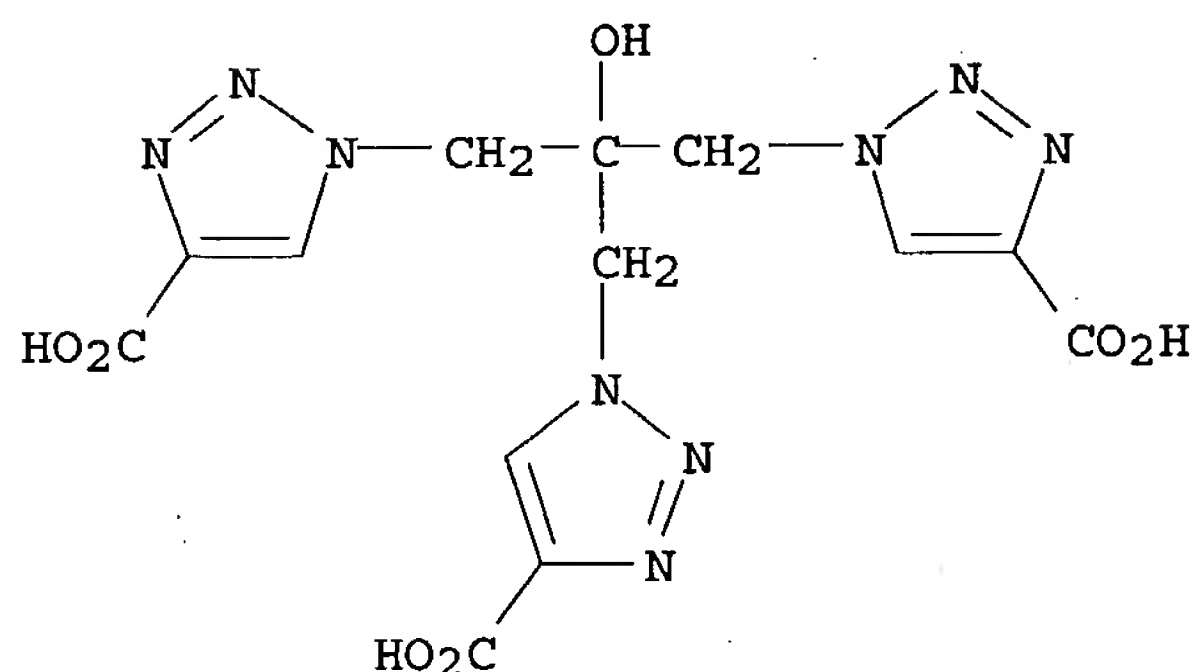


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L25 ANSWER 5 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 682353-71-5 REGISTRY
 CN INDEX NAME NOT YET ASSIGNED
 FS 3D CONCORD

MF C13 H13 N9 O7
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAPLUS document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)

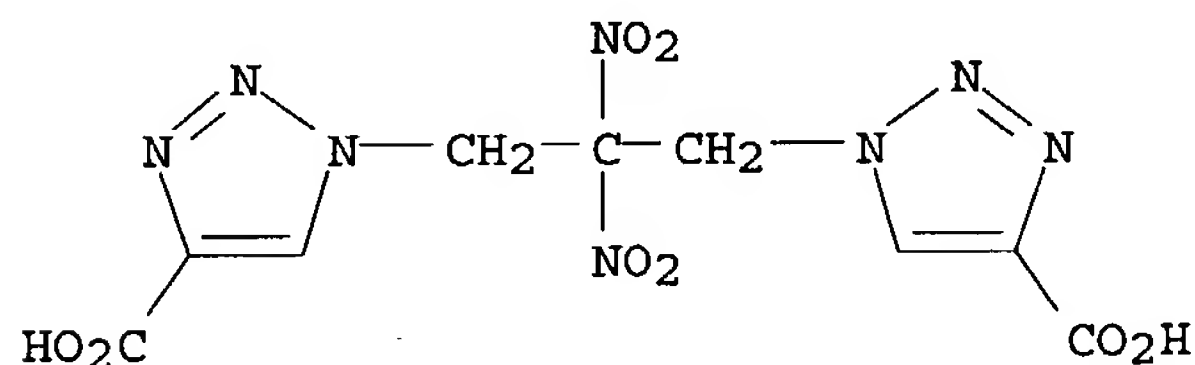


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L25 ANSWER 6 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
RN 682353-70-4 REGISTRY
CN 1H-1,2,3-Triazole-4-carboxylic acid, 1,1'-(2,2-dinitro-1,3-propanediyl)bis-
(9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C9 H8 N8 O8
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAPLUS document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)



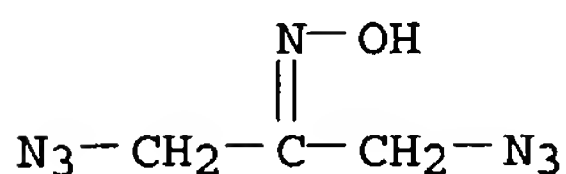
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L25 ANSWER 7 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
RN 682353-69-1 REGISTRY
CN 2-Propanone, 1,3-diazido-, oxime (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C3 H5 N7 O

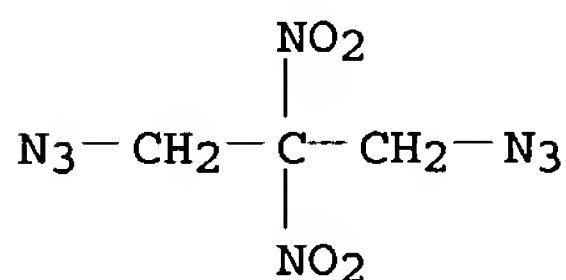
SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

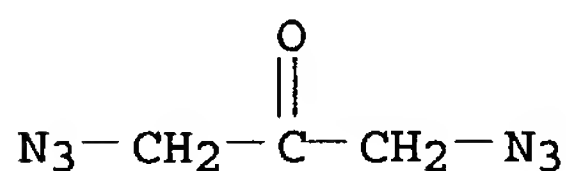
L25 ANSWER 8 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 682353-68-0 REGISTRY
 CN Propane, 1,3-diazido-2,2-dinitro- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C3 H4 N8 O4
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L25 ANSWER 9 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 682353-67-9 REGISTRY
 CN 2-Propanone, 1,3-diazido- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C3 H4 N6 O
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

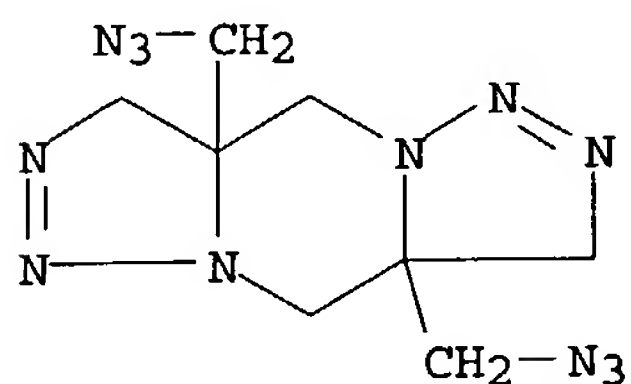


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L25 ANSWER 10 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 481067-67-8 REGISTRY
 CN 3H,8H-Bis[1,2,3]triazolo[1,5-a:1',5'-d]pyrazine, 3a,8a-bis(azidomethyl)-

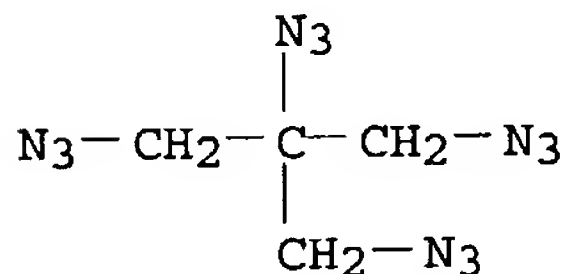
3a,4,8a,9-tetrahydro- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C8 H12 N12
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:75615

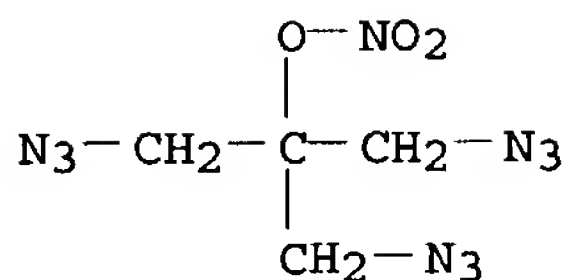
L25 ANSWER 11 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 481067-64-5 REGISTRY
 CN Propane, 1,2,3-triazido-2-(azidomethyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C4 H6 N12
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation)



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:75615

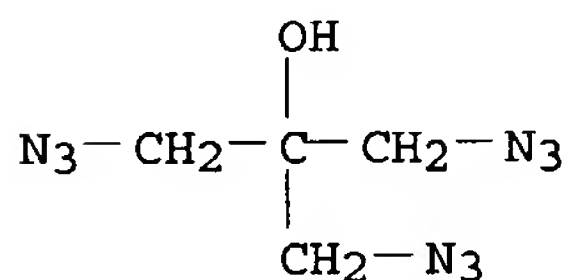
L25 ANSWER 12 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 481067-63-4 REGISTRY
 CN 2-Propanol, 1,3-diazido-2-(azidomethyl)-, nitrate (ester) (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C4 H6 N10 O3
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation)



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:75615

L25 ANSWER 13 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 481067-62-3 REGISTRY
 CN 2-Propanol, 1,3-diazido-2-(azidomethyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C4 H7 N9 O
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

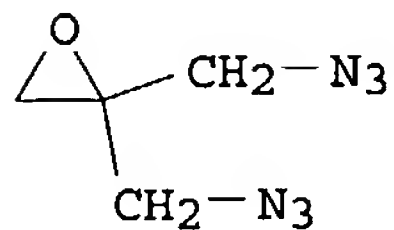


2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

REFERENCE 2: 138:75615

L25 ANSWER 14 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 481067-60-1 REGISTRY
 CN Oxirane, 2,2-bis(azidomethyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C4 H6 N6 O
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)



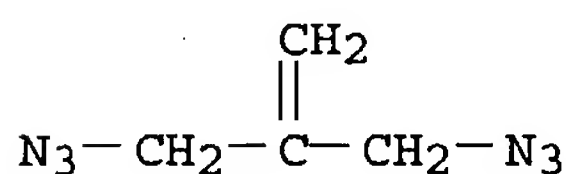
2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

REFERENCE 2: 138:75615

L25 ANSWER 15 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 481067-58-7 REGISTRY
 CN 1-Propene, 3-azido-2-(azidomethyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C4 H6 N6
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Cplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

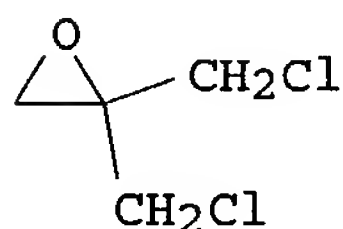


2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

REFERENCE 2: 138:75615

L25 ANSWER 16 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 1003-20-9 REGISTRY
 CN Oxirane, 2,2-bis(chloromethyl)- (8CI, 9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Propane, 1-chloro-2-(chloromethyl)-2,3-epoxy- (7CI)
 OTHER NAMES:
 CN 1-Chloro-2,3-epoxy-2-chloromethylpropane
 FS 3D CONCORD
 MF C4 H6 Cl2 O
 CI COM
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, USPATFULL
 (*File contains numerically searchable property data)
 DT.CA Cplus document type: Journal; Patent
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent);
 NORL (No role in record)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17 REFERENCES IN FILE CA (1907 TO DATE)
 17 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 140:357709

REFERENCE 2: 139:197558

REFERENCE 3: 138:75615

REFERENCE 4: 135:211069

REFERENCE 5: 121:280784

REFERENCE 6: 102:78892

REFERENCE 7: 102:19615

REFERENCE 8: 101:38456

REFERENCE 9: 98:125057

REFERENCE 10: 96:68248

L25 ANSWER 17 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 119-26-6 REGISTRY

CN Hydrazine, (2,4-dinitrophenyl)- (6CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN (2,4-Dinitrophenyl)hydrazine

CN 1-Hydrazino-2,4-dinitrobenzene

CN DNPH

CN NSC 5709

FS 3D CONCORD

MF C6 H6 N4 O4

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSChem, CSNB, DETHERM*, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

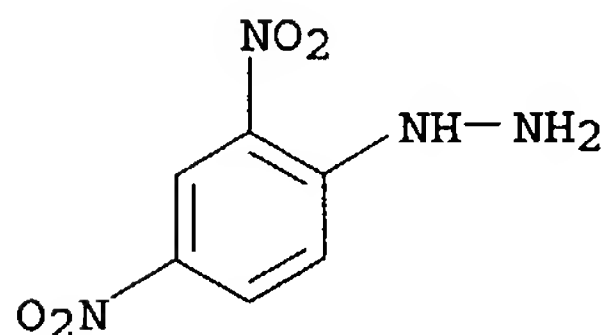
DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1930 REFERENCES IN FILE CA (1907 TO DATE)

56 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

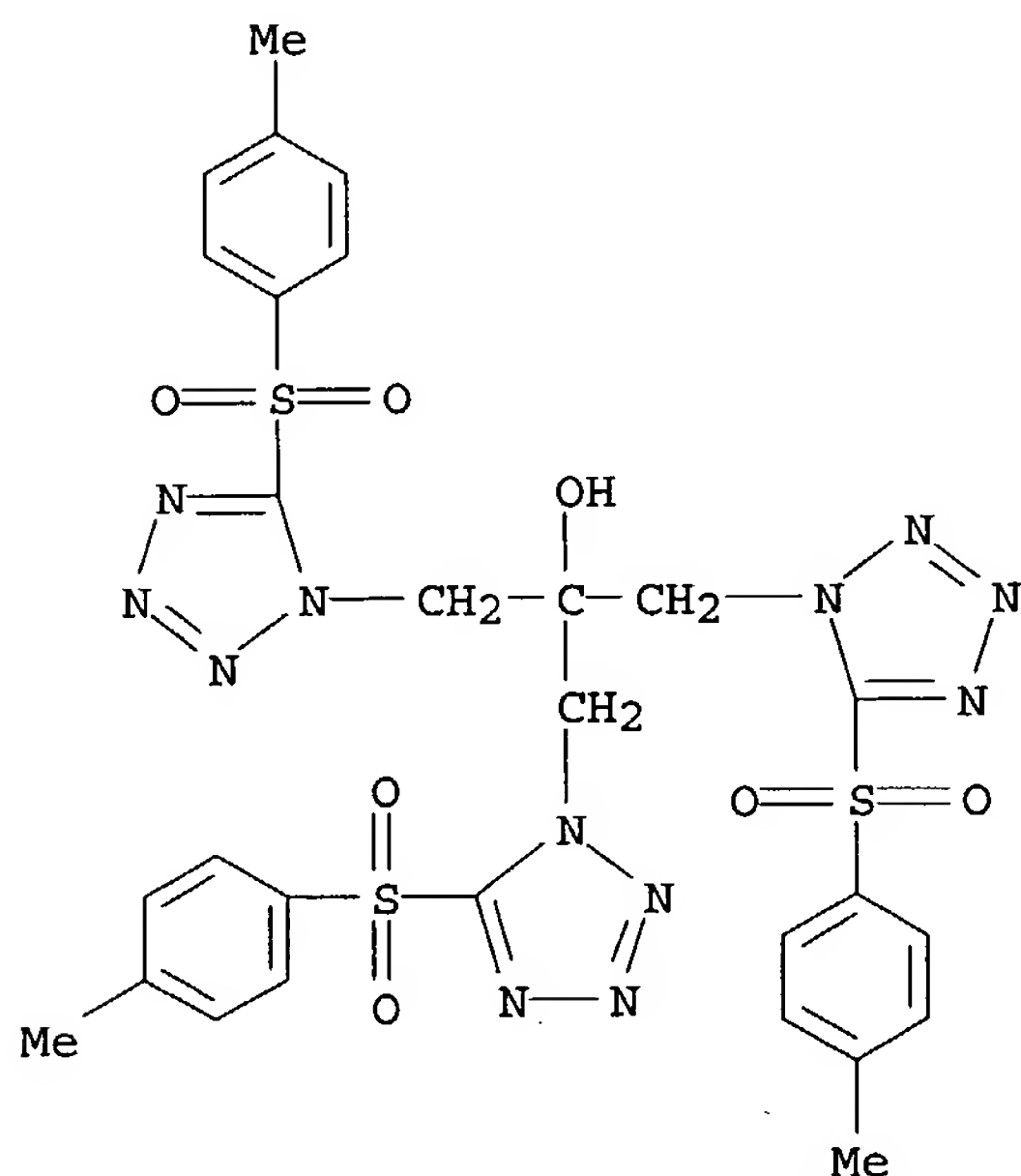
1930 REFERENCES IN FILE CAPLUS (1907 TO DATE)

65 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 140:376922
REFERENCE 2: 140:375882
REFERENCE 3: 140:375263
REFERENCE 4: 140:374959
REFERENCE 5: 140:367870
REFERENCE 6: 140:357300
REFERENCE 7: 140:357030
REFERENCE 8: 140:352917
REFERENCE 9: 140:308142
REFERENCE 10: 140:296559

=> => d ide can tot l33

L33 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN
RN 682353-73-7 REGISTRY
CN 1H-Tetrazole-1-ethanol, 5-[(4-methylphenyl)sulfonyl]- α,α -
bis[[5-[(4-methylphenyl)sulfonyl]-1H-tetrazol-1-yl]methyl]- (9CI) (CA
INDEX NAME)
FS 3D CONCORD
MF C28 H28 N12 O7 S3
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)



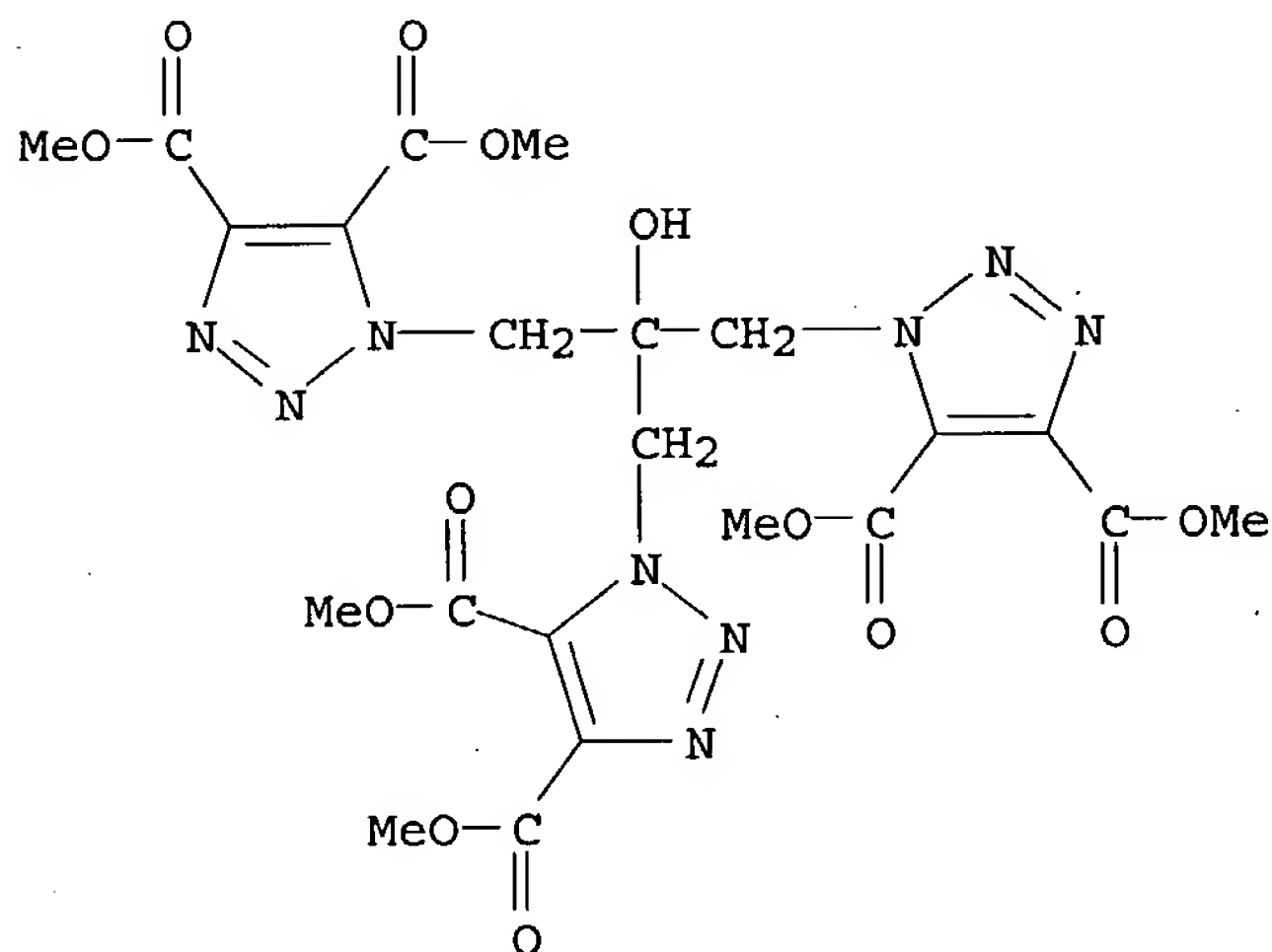
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****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

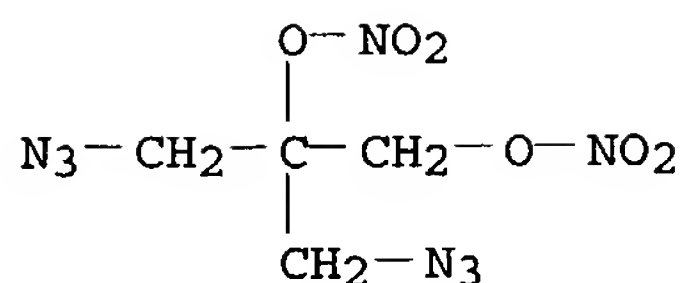
L33 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN
RN 682353-72-6 REGISTRY
CN INDEX NAME NOT YET ASSIGNED
FS 3D CONCORD
MF C22 H25 N9 O13
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)

****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L33 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN
RN 481067-65-6 REGISTRY
CN 1,2-Propanediol, 3-azido-2-(azidomethyl)-, dinitrate (ester) (9CI) (CA
INDEX NAME)
FS 3D CONCORD
MF C4 H6 N8 O6
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:75615

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(FILE 'REGISTRY' ENTERED AT 11:06:13 ON 01 JUN 2004)

SAV L24 QAZI604B/A

L25 17 S L19,L24

FILE 'REGISTRY' ENTERED AT 11:14:14 ON 01 JUN 2004

L26 15 S L25 NOT (119-26-6 OR 1003-20-9)

L27 2 S L25 NOT L26

FILE 'HCAOLD' ENTERED AT 11:15:25 ON 01 JUN 2004

L28 0 S L26

FILE 'USPATFULL, USPAT2' ENTERED AT 11:15:29 ON 01 JUN 2004

L29 0 S L26

FILE 'HCAPLUS' ENTERED AT 11:15:34 ON 01 JUN 2004

L30 2 S L26

L31 1948 S L27

L32 2 S L30 AND L31

FILE 'REGISTRY' ENTERED AT 11:16:28 ON 01 JUN 2004

L33 3 S 682353-72-6 OR 682353-73-7 OR 481067-65-6

FILE 'HCAPLUS' ENTERED AT 11:16:44 ON 01 JUN 2004

L34 2 S L33

FILE 'USPATFULL, USPAT2' ENTERED AT 11:16:45 ON 01 JUN 2004

L35 0 S L33

FILE 'HCAPLUS' ENTERED AT 11:16:50 ON 01 JUN 2004

L36 2 S L33

L37 2 S L34,L36

FILE 'REGISTRY' ENTERED AT 11:17:02 ON 01 JUN 2004

FILE 'HCAPLUS' ENTERED AT 11:17:25 ON 01 JUN 2004

L38 2 S L32,L34,L37

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 11:18:40 ON 01 JUN 2004

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FILE COVERS 1907 - 1 Jun 2004 VOL 140 ISS 23
FILE LAST UPDATED: 31 May 2004 (20040531/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L38 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:137939 HCAPLUS
DN 140:357709
ED Entered STN: 20 Feb 2004
TI Preparation of cage molecule based polyazido core units for dendrimer synthesis
AU Dave, Paritosh R.; Duddu, Raja; Yang, Kathy; Damavarapu, Reddy; Gelber, Nathaniel; Surapaneni, Rao; Gilardi, Richard
CS GEO-CENTERS, INC. at ARDEC, Picatinny Arsenal, NJ, 07806-5000, USA
SO Tetrahedron Letters (2004), 45(10), 2159-2162
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science B.V.
DT Journal
LA English
CC 35-2 (Chemistry of Synthetic High Polymers)
AB Core mols. based on benzene-, cubane-, and adamantane-polycarboxylates with peripheral polyazido substitution were prepared The first synthesis of 1,3-diazidoacetone and its conversion to the corresponding oxime, DNPH, and 2,2-dinitro derivs. is also reported. All azido compds. should be considered dangerous and proper precautions should be taken during handling and storage of these mols.
ST azido core benzene cubane adamantane carboxylate core dendrimer prep; cage dendrimer polyazido group alkyne nitrile reaction
IT Nitration
(oxidative; preparation of peripheral polyazido and benzene and cubane and adamantane core unit cages for triazole and tetrazole containing dendrimer synthesis)
IT Epoxidation
Ozonization
(preparation of peripheral polyazido and benzene and cubane and adamantane core unit cages for triazole and tetrazole containing dendrimer synthesis)
IT 1003-20-9P 481067-60-1P 481067-62-3P
682353-67-9P 682353-68-0P 682353-69-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of peripheral polyazido and benzene and cubane and adamantane core unit cages for triazole and tetrazole containing dendrimer synthesis)
IT 471-25-0, Propiolic acid 534-07-6, 1,3-Dichloroacetone 762-42-5, Dimethyl acetylenedicarboxylate 937-14-4, Mcpba 1871-57-4 4422-95-1, 1,3,5-Benzenetricarbonyl trichloride 5470-11-1, Hydroxylamine hydrochloride 7646-69-7, Sodium hydride 7697-37-2, Nitric acid, reactions 19158-51-1, p-Toluenesulfonyl cyanide 26628-22-8, Sodium azide 60462-24-0 137494-82-7 161980-55-8 481067-58-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of peripheral polyazido and benzene and cubane and adamantane core unit cages for triazole and tetrazole containing dendrimer synthesis)
IT 682353-70-4P 682353-71-5P 682353-72-6P

682353-73-7P 682353-74-8P 682353-75-9P

682353-76-0P 682353-77-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of peripheral polyazido and benzene and cubane and adamantane core unit cages for triazole and tetrazole containing dendrimer synthesis)

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Banert, K; J Chem Soc, Perkin Trans 2 2002, P126 HCAPLUS
- (2) Bashir-Hashemi, A; J Org Chem 1995, V60, P698 HCAPLUS
- (3) Bashir-Hashemi, A; Tetrahedron Lett 1995, V36, P1233 HCAPLUS
- (4) Boyer, J; Chem Rev 1954, V54, P1 HCAPLUS
- (5) Dave, P; J Org Chem 1990, V55, P4459 HCAPLUS
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- (13) Newkome, G; J Org Chem 1992, V57, P358 HCAPLUS
- (14) Pezzullo, J; J Org Chem 1973, V38, P168 HCAPLUS
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- (16) Treves, G; Chem Ind 1971, P544 HCAPLUS
- (17) Wilson, E; J Org Chem 1985, V50, P3211 HCAPLUS

IT 1003-20-9P 481067-60-1P 481067-62-3P

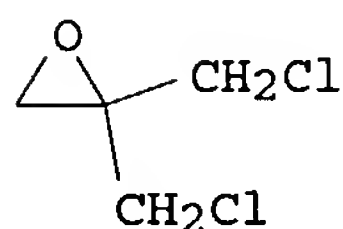
682353-67-9P 682353-68-0P 682353-69-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of peripheral polyazido and benzene and cubane and adamantane core unit cages for triazole and tetrazole containing dendrimer synthesis)

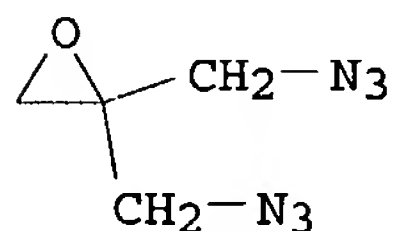
RN 1003-20-9 HCAPLUS

CN Oxirane, 2,2-bis(chloromethyl)- (8CI, 9CI) (CA INDEX NAME)



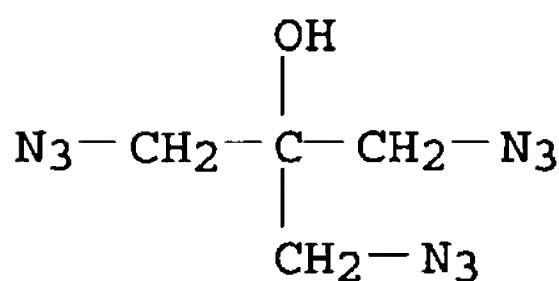
RN 481067-60-1 HCAPLUS

CN Oxirane, 2,2-bis(azidomethyl)- (9CI) (CA INDEX NAME)



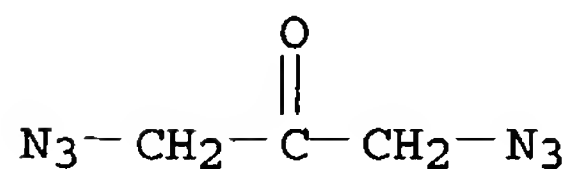
RN 481067-62-3 HCAPLUS

CN 2-Propanol, 1,3-diazido-2-(azidomethyl)- (9CI) (CA INDEX NAME)



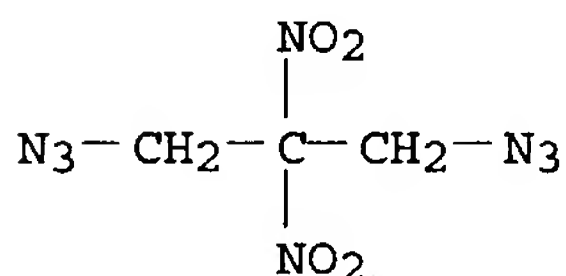
RN 682353-67-9 HCAPLUS

CN 2-Propanone, 1,3-diazido- (9CI) (CA INDEX NAME)



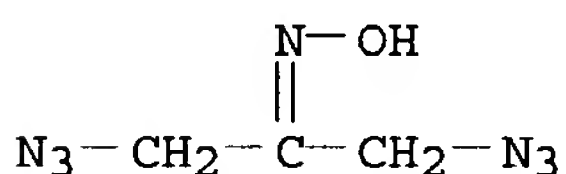
RN 682353-68-0 HCAPLUS

CN Propane, 1,3-diazido-2,2-dinitro- (9CI) (CA INDEX NAME)



RN 682353-69-1 HCAPLUS

CN 2-Propanone, 1,3-diazido-, oxime (9CI) (CA INDEX NAME)



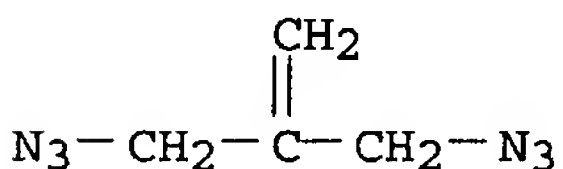
IT 481067-58-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of peripheral polyazido and benzene and cubane and adamantane core unit cages for triazole and tetrazole containing dendrimer synthesis)

RN 481067-58-7 HCAPLUS

CN 1-Propene, 3-azido-2-(azidomethyl)- (9CI) (CA INDEX NAME)



IT 682353-70-4P 682353-71-5P 682353-72-6P

682353-73-7P 682353-74-8P 682353-75-9P

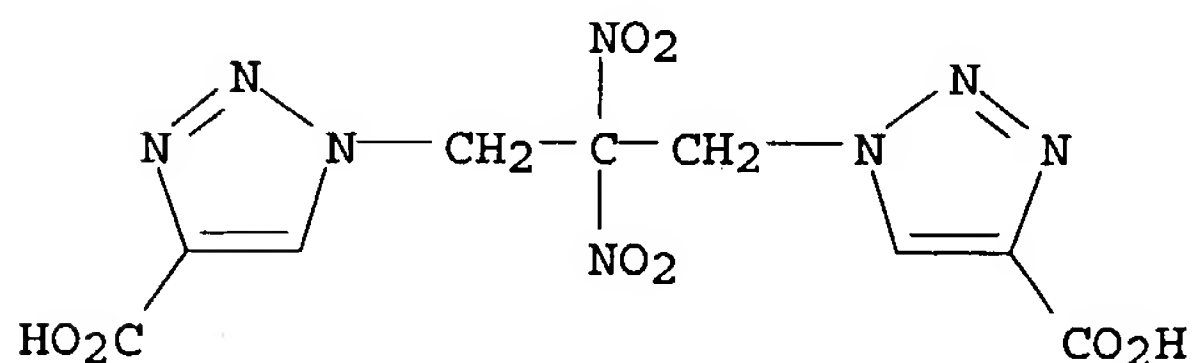
682353-76-0P 682353-77-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of peripheral polyazido and benzene and cubane and adamantane core unit cages for triazole and tetrazole containing dendrimer synthesis)

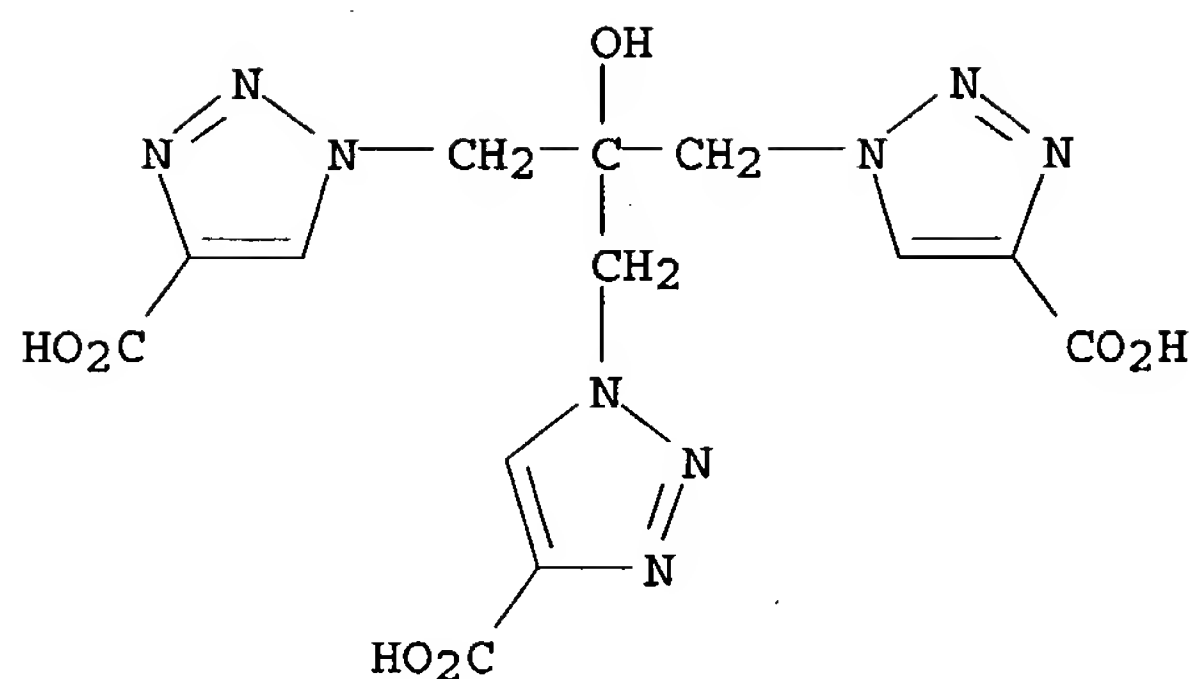
RN 682353-70-4 HCAPLUS

CN 1H-1,2,3-Triazole-4-carboxylic acid, 1,1'-(2,2-dinitro-1,3-propanediyl)bis- (9CI) (CA INDEX NAME)

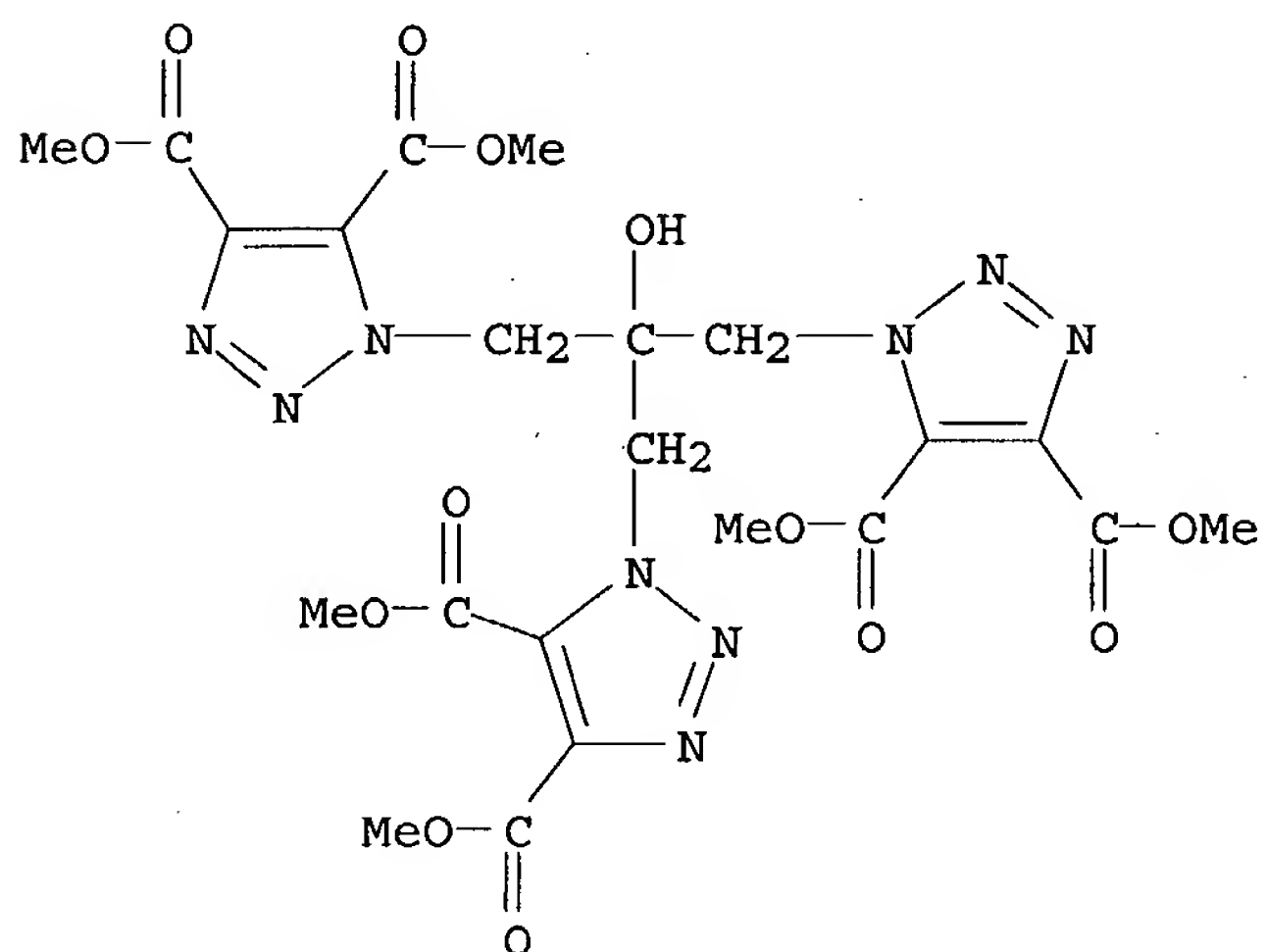


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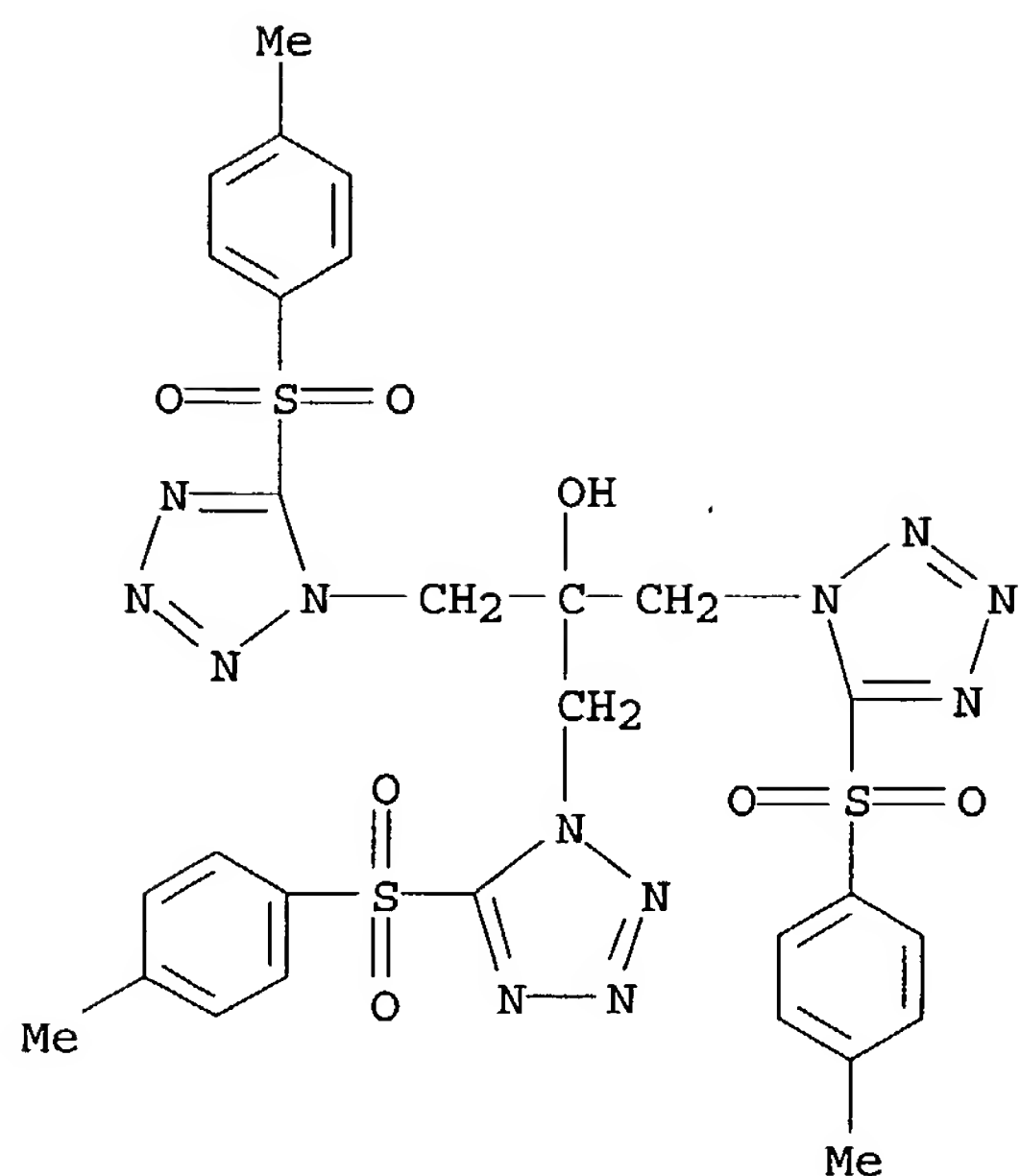
CN INDEX NAME NOT YET ASSIGNED



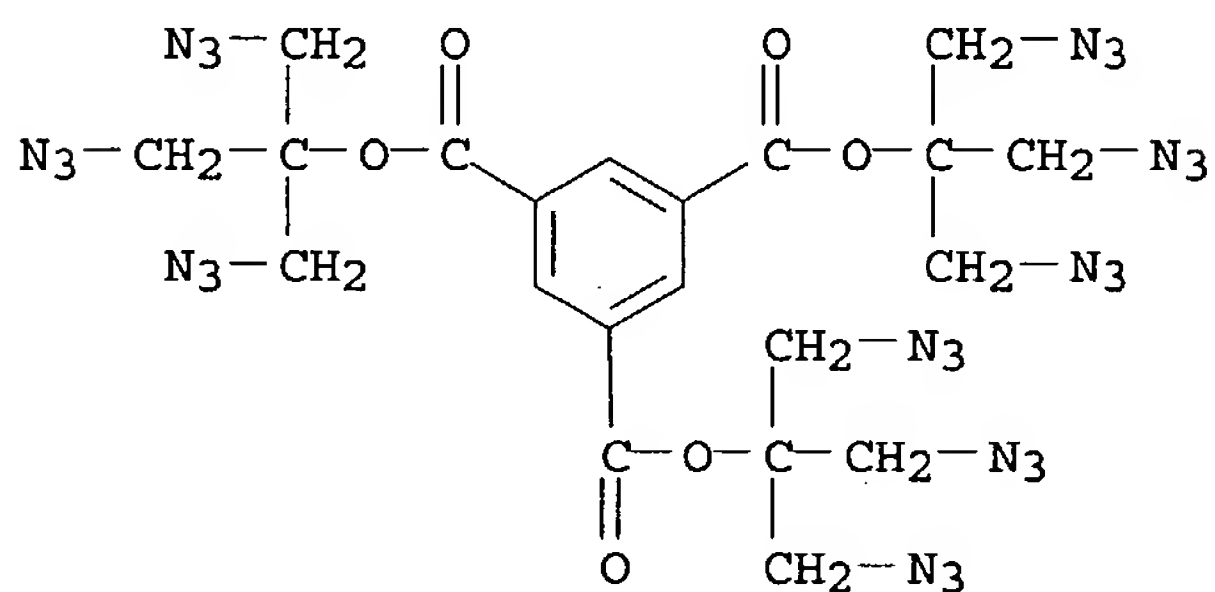
RN 682353-72-6 HCAPLUS
 CN INDEX NAME NOT YET ASSIGNED



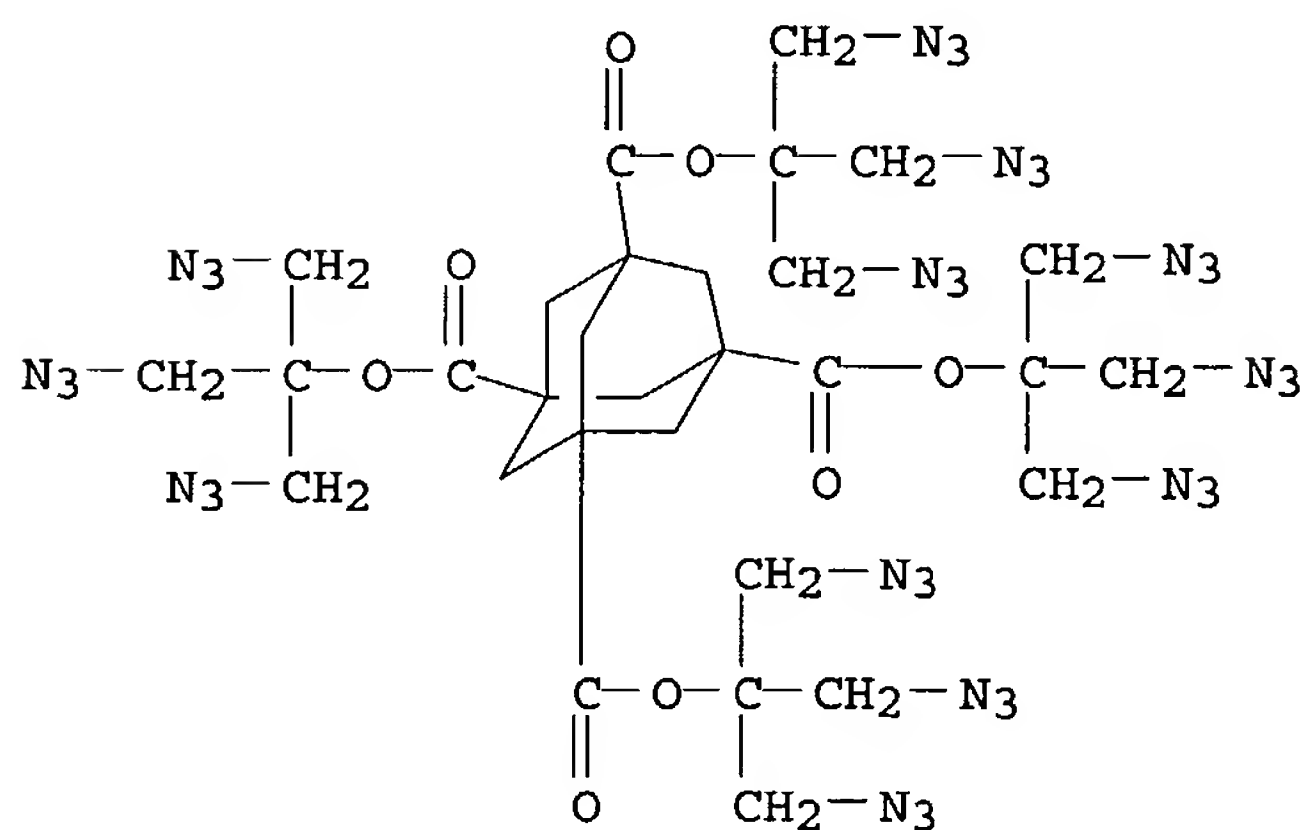
RN 682353-73-7 HCAPLUS
 CN 1H-Tetrazole-1-ethanol, 5-[(4-methylphenyl)sulfonyl]- α,α -bis[[5-[(4-methylphenyl)sulfonyl]-1H-tetrazol-1-yl]methyl]- (9CI) (CA INDEX NAME)



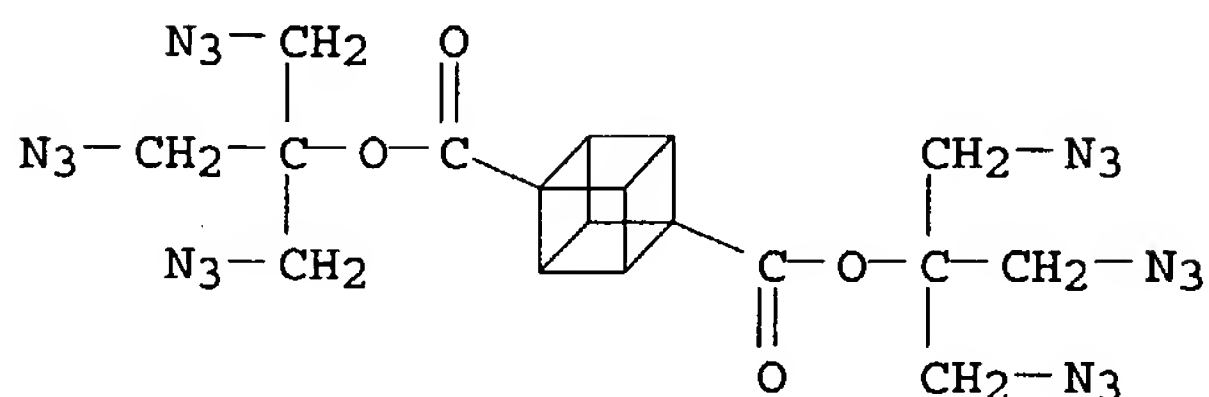
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 CN INDEX NAME NOT YET ASSIGNED



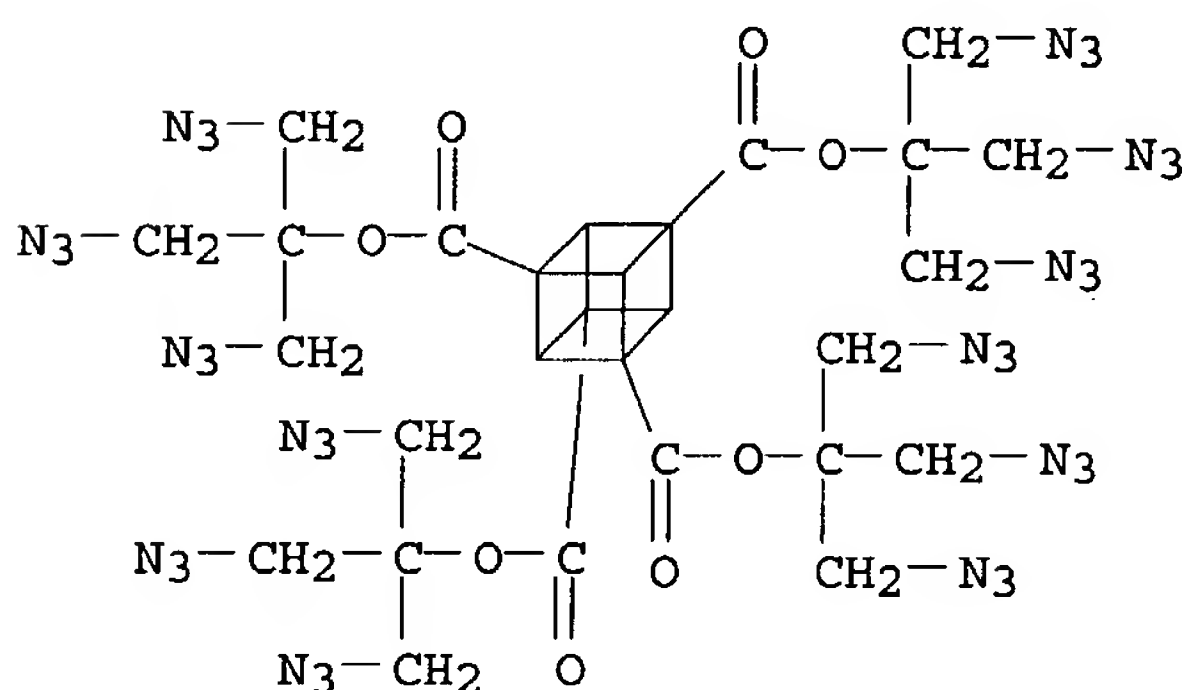
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 CN INDEX NAME NOT YET ASSIGNED



RN 682353-76-0 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

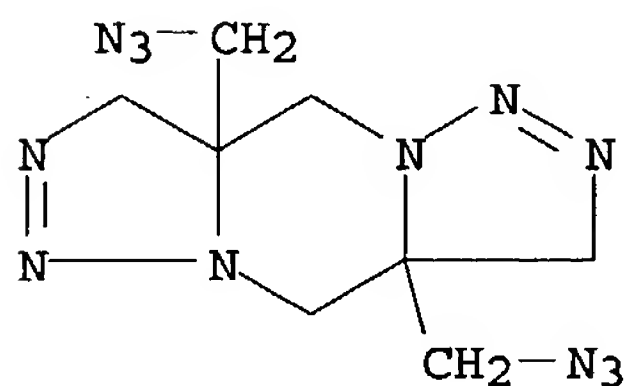


RN 682353-77-1 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

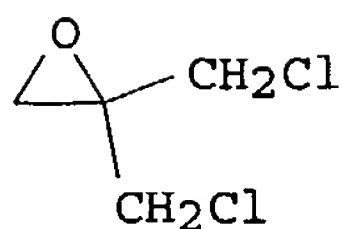


L38 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:605702 HCAPLUS
DN 138:75615
ED Entered STN: 14 Aug 2002
TI Novel polyazido/polynitrato compounds derived from methallyl dichloride
AU Surapaneni, Rao; Damavarapu, Reddy; Duddu, Raja; Dave, Paritosh R.;
Gilardi, Richard D.
CS US Army Armament Research Development and Engineering Center, Picatinny
Arsenal, NJ, 07806-5000, USA
SO International Annual Conference of ICT (2002), 33rd(Energetic Materials),
147/1-147/5
CODEN: IACIEQ; ISSN: 0722-4087
PB Fraunhofer-Institut fuer Chemische Technologie
DT Journal
LA English
CC 50-1 (Propellants and Explosives)
Section cross-reference(s): 35
AB Several polynitrato and polyazido compds., derived from a lower homolog of
pentaerythritol and have one less methylene unit, were synthesized in
order to develop lead-free primary explosives. The compds. were derived
from methallyl dichloride by such reactions as epoxidn., nucleophilic
substitution, and ring-opening nitration. Nitration. These compds. are of
potential interest as energetic plasticizers and their multiple functional
groups can be exploited to prepare novel dendritic structures.
ST polyazide polynitrate PETN homolog explosive; epoxidn azidation methallyl
dichloride explosive PETN homolog; nitration epoxidn methallyl dichloride
explosive PETN homolog
IT Substitution reaction
(azidation; novel polyazido-polynitrato compds. derived from methallyl
dichloride by epoxidn., nucleophilic substitution, and ring-opening
nitration)

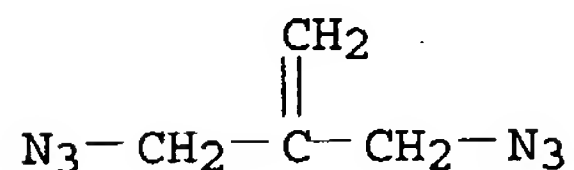
- IT Dendritic polymers
 RL: MSC (Miscellaneous)
 (novel core structures for; novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)
- IT Epoxidation
 Explosives
 (novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)
- IT Nitration
 (ring-opening, of epoxides; novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)
- IT 1871-57-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactions of; novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)
- IT 481067-67-8P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (spontaneous formation and crystal structure of; novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)
- IT 1003-20-9P, Oxirane, 2,2-bis(chloromethyl)- 481067-58-7P
 481067-60-1P 481067-62-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and reactions of; novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)
- IT 481067-63-4P 481067-64-5P 481067-65-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (synthesis of; novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)
- IT 481067-67-8P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (spontaneous formation and crystal structure of; novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)
- RN 481067-67-8 HCAPLUS
- CN 3H,8H-Bis[1,2,3]triazolo[1,5-a:1',5'-d]pyrazine, 3a,8a-bis(azidomethyl)-3a,4,8a,9-tetrahydro- (9CI) (CA INDEX NAME)



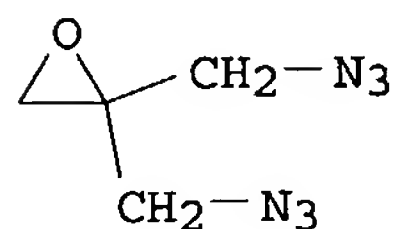
- IT 1003-20-9P, Oxirane, 2,2-bis(chloromethyl)- 481067-58-7P
 481067-60-1P 481067-62-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and reactions of; novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)
- RN 1003-20-9 HCAPLUS
- CN Oxirane, 2,2-bis(chloromethyl)- (8CI, 9CI) (CA INDEX NAME)



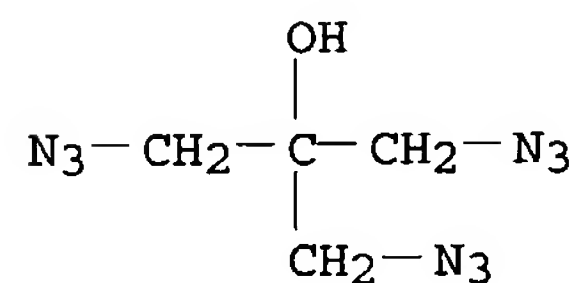
RN 481067-58-7 HCAPLUS
 CN 1-Propene, 3-azido-2-(azidomethyl)- (9CI) (CA INDEX NAME)



RN 481067-60-1 HCAPLUS
 CN Oxirane, 2,2-bis(azidomethyl)- (9CI) (CA INDEX NAME)



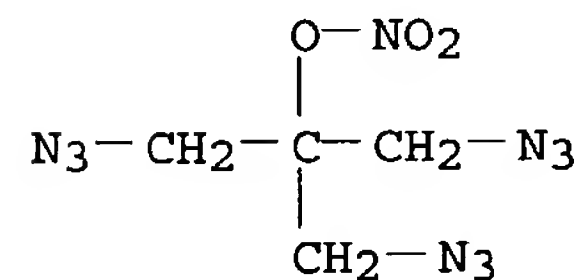
RN 481067-62-3 HCAPLUS
 CN 2-Propanol, 1,3-diazido-2-(azidomethyl)- (9CI) (CA INDEX NAME)



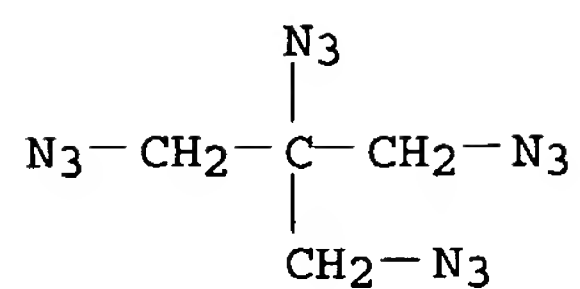
IT 481067-63-4P 481067-64-5P 481067-65-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (synthesis of; novel polyazido-polynitrato compds. derived from
 methallyl dichloride by epoxidn., nucleophilic substitution, and
 ring-opening nitration)

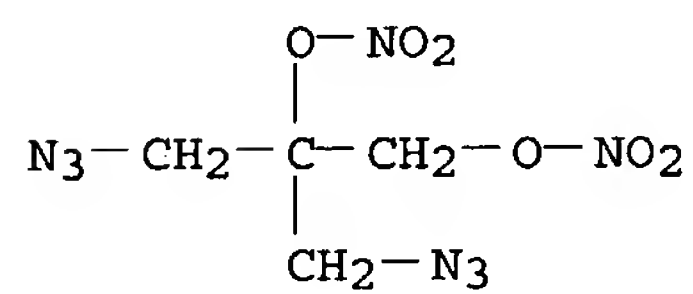
RN 481067-63-4 HCAPLUS
 CN 2-Propanol, 1,3-diazido-2-(azidomethyl)-, nitrate (ester) (9CI) (CA INDEX NAME)



RN 481067-64-5 HCAPLUS
 CN Propane, 1,2,3-triazido-2-(azidomethyl)- (9CI) (CA INDEX NAME)



RN 481067-65-6 HCAPLUS

CN 1,2-Propanediol, 3-azido-2-(azidomethyl)-, dinitrate (ester) (9CI) (CA
INDEX NAME)

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